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Kalantar et al.

Method, System, and Product for Identifying, Reserving, and Logically Provisioning Resources in Provisioning Data Processing Systems

1/6

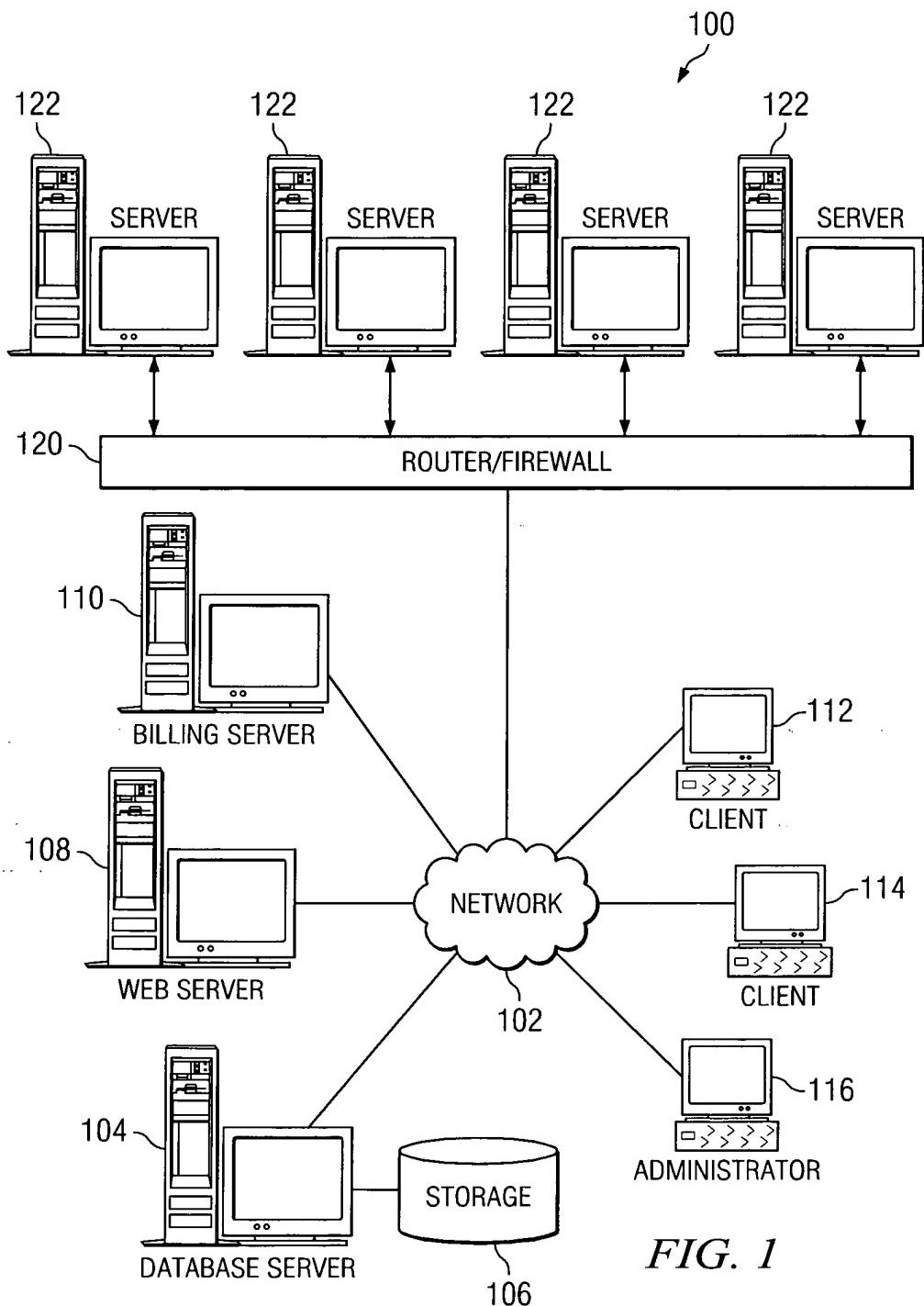


FIG. 1

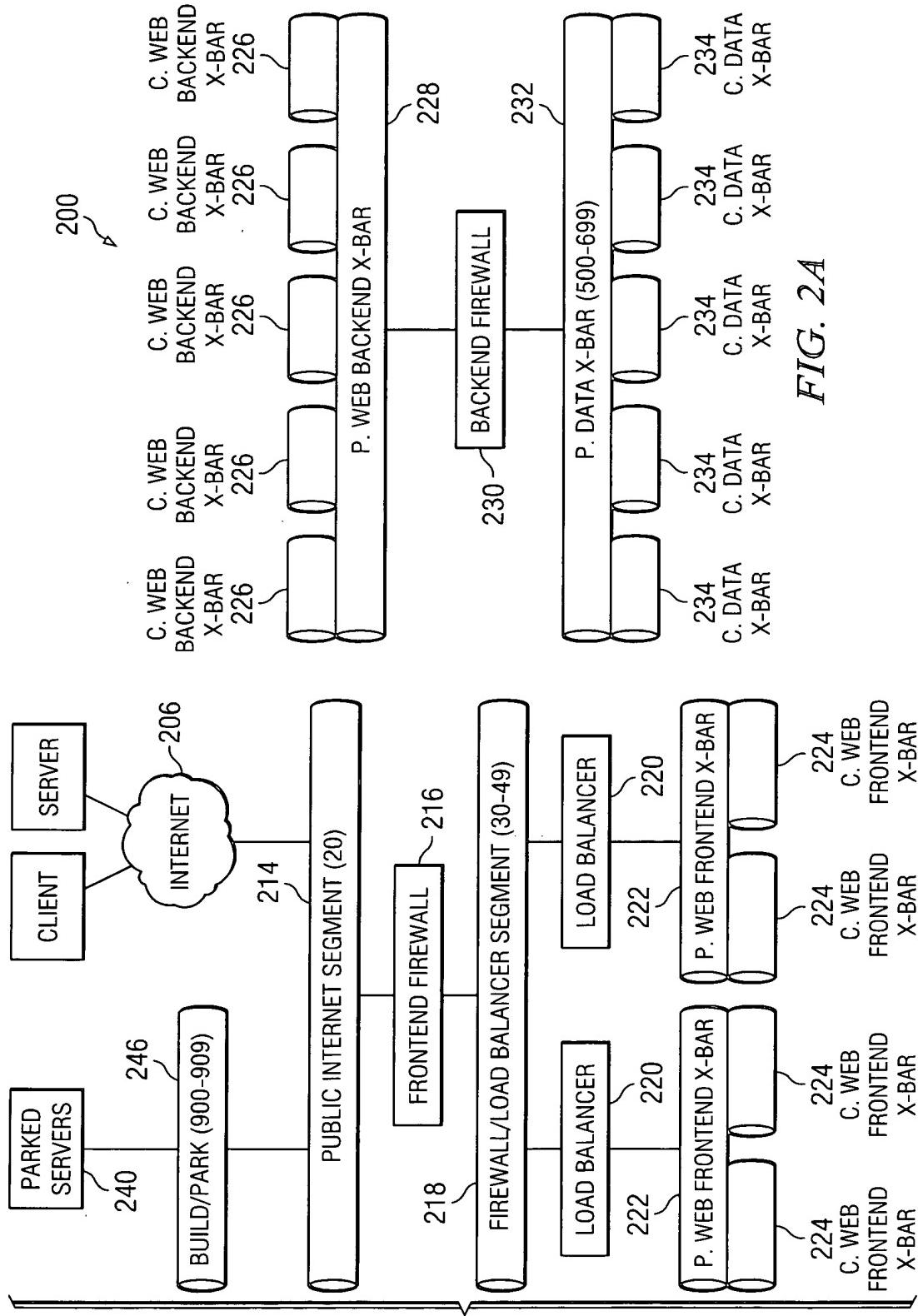


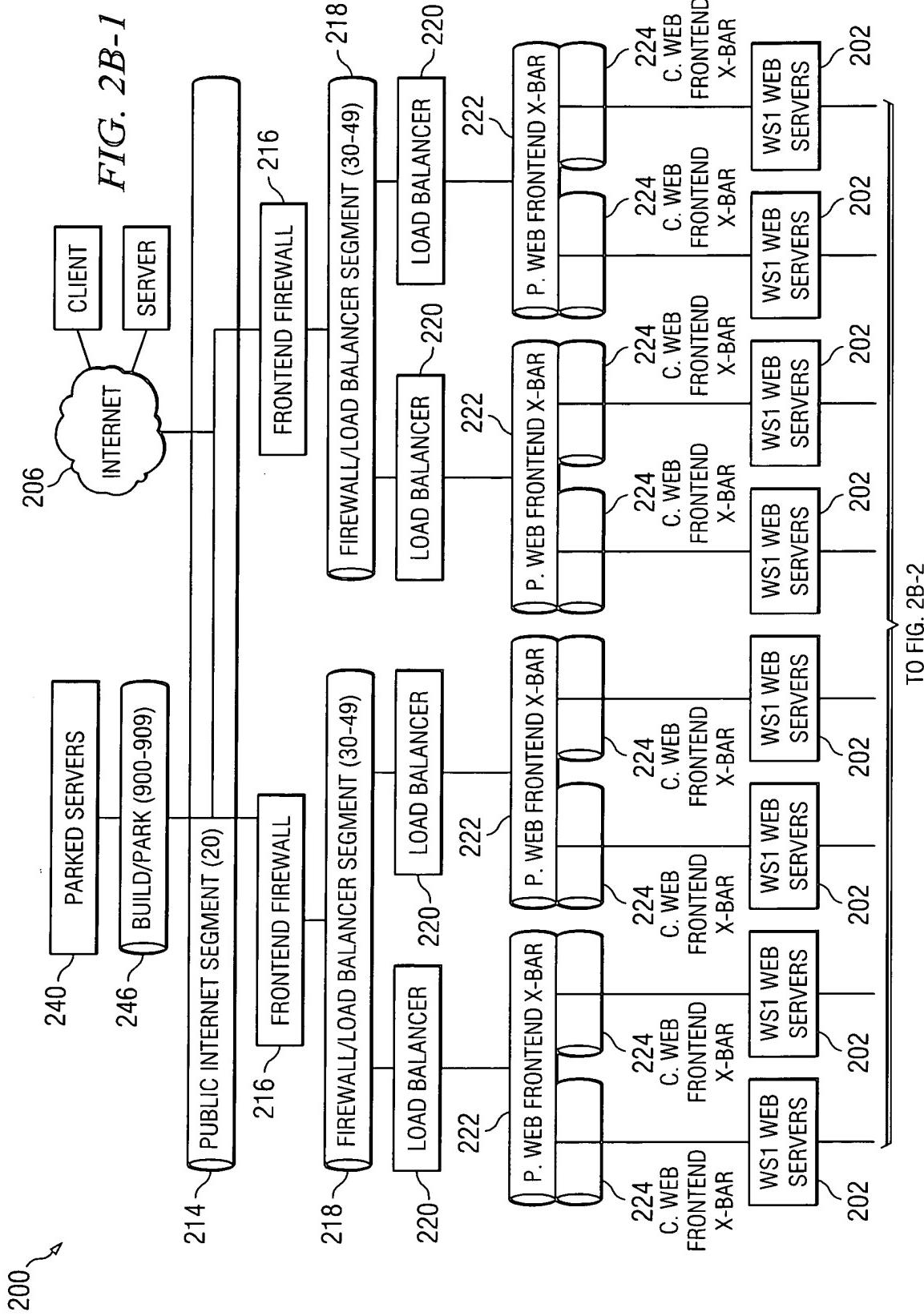
FIG. 2A

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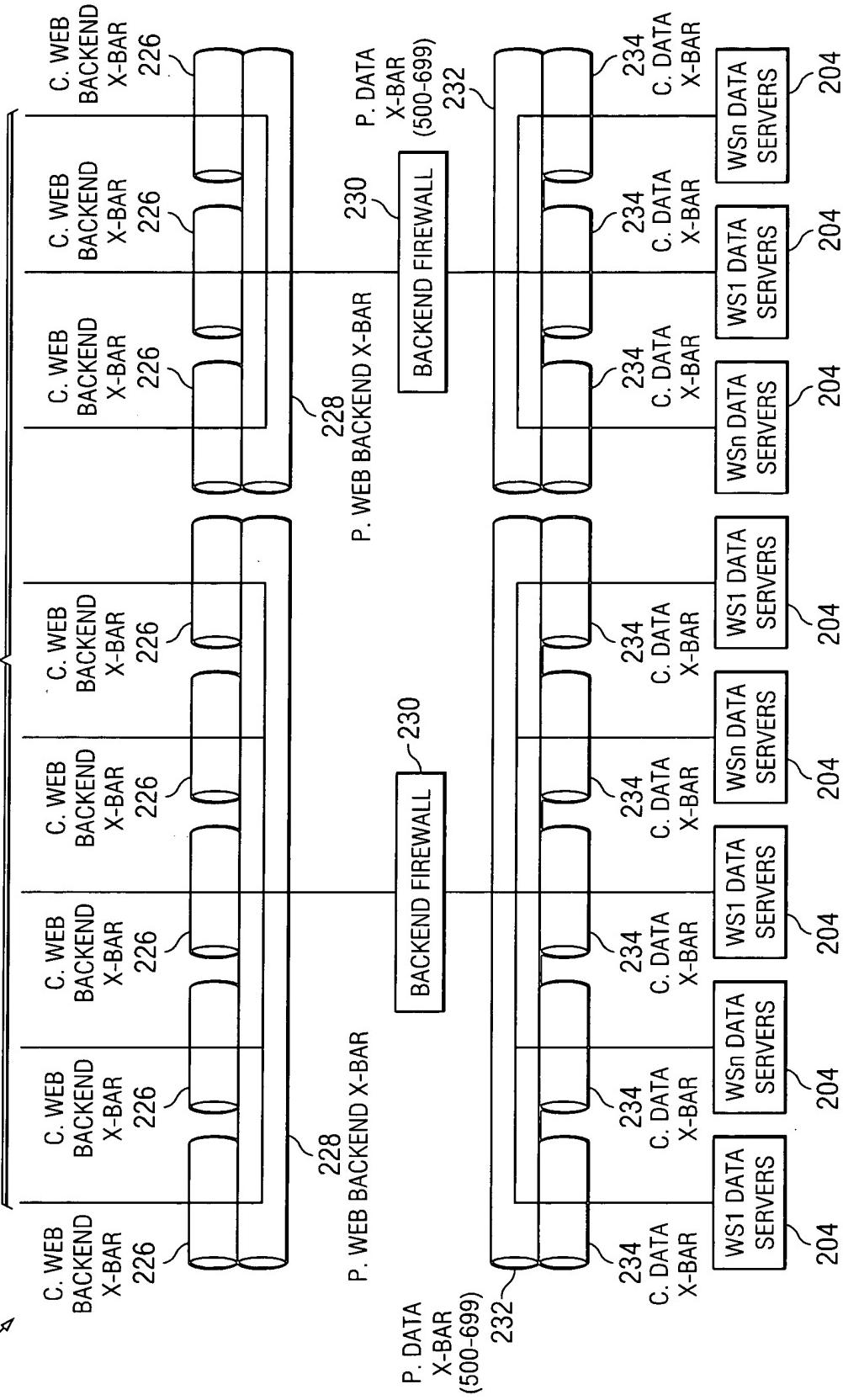
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3/6



200
FIG. 2B-2
 FROM FIG. 2B-1



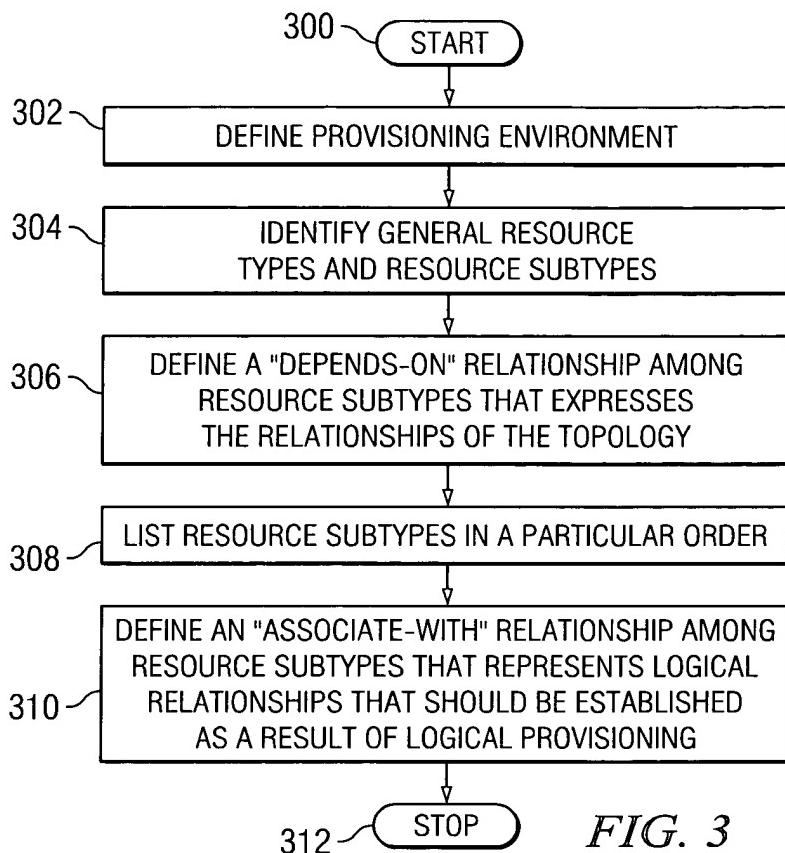


FIG. 3

500 Select (R, I, N) returns resource instance set
 Identify a minimal $r \in R$ using topological order 501
 Let S_1, \dots, S_k be all sets of N_r resource instances 502
 such that: $\forall s \in S_j$ is of subtype r
 $\forall s \in S_j$ is available
 $\forall s \in S_j$, if r depends-on r' , $\exists t \in I$ such
 that t is of type r' and s depends on t
 503 for $j = 1$ to k do
 504 success = set_all_states
 $(S_j, 'available', 'reserving')$
 505 if (success)
 $I' = Select (R - \{r\}, I \cup S_j, N)$ 506
 if (I' not equal $(I \cup S_j)$) then 507
 return $(I \cup S_j \cup I')$ 508
 509 else set_all_states
 $(S_j, 'reserving', 'available')$
 end 510
 511 end
 return (I) 512

FIG. 5

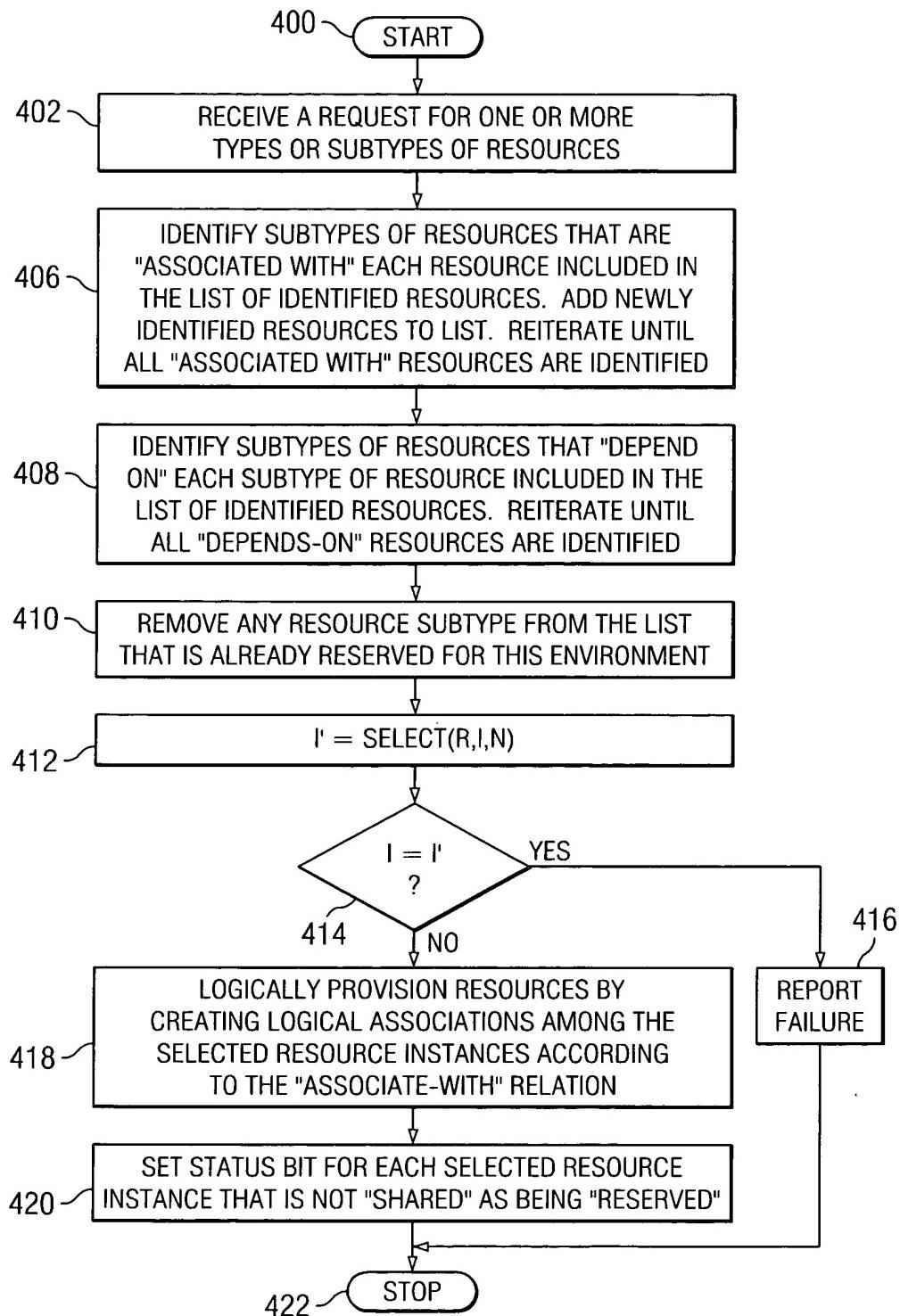


FIG. 4